

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

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of

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Complete if Known

Application Number	10/633,630
Filing Date	August 5, 2003
First Named Inventor	Jörg Kaufmann
Art Unit	1635
Examiner Name	Kimberly Chong
Attorney Docket Number	ST-101XT

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number - Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	US- 60/352,873	02-01-2002	Damha, M. J. <i>et al.</i>	All
	U2	US-60/358,580	02-20-2002	Beigelman, L. <i>et al.</i>	All
	U3	US-60/363,124	03-11-2002	Beigelman, L. <i>et al.</i>	All
	U4	US-60/386,782	06-06-2002	Beigelman, L. <i>et al.</i>	All
	U5	US-2003/0135033 A1	07-17-2003	Klippel-Giese, A. <i>et al.</i>	All
	U6	US-2004/0106569 A1	06-03-2004	Klippel-Giese, A. <i>et al.</i>	All
	U7	US-2004/0180351 A1	09-16-2004	Giese, K., <i>et al.</i>	All
	U8	US-2005/0043263 A1	02-24-2005	Giese, K., <i>et al.</i>	All
	U9	US-2006/0217329 A1	09-28-2006	Feinstein, E.	All
	U10	US-2006/0240022 A1	10-26-2006	Klippel-Giese, A. <i>et al.</i>	All
	U11	US- 4,217,294	08-12-1980	Petty, H.E.	All
	U12	US- 5,466,786	11-14-1995	Buhr, C. A. <i>et al.</i>	All
	U13	US- 5,589,389	12-31-1996	Pages, E. <i>et al.</i>	All
	U14	US- 5,670,633	09-23-1997	Cook, P. D. <i>et al.</i>	All
	U15	US- 5,792,847	08-11-1998	Buhr, C. A. <i>et al.</i>	All
	U16	US- 5,872,232	02-16-1999	Cook, P.D. <i>et al.</i>	All
	U17	US- 5,898,031	04-27-1999	Crooke, S.T.	All
	U18	US- 5,914,396	06-22-1999	Cook, P.D. <i>et al.</i>	All
	U19	US- 6,005,087	12-21-1999	Cook, P.D. <i>et al.</i>	All
	U20	US- 6,129,912	10-10-2000	Hortin, G. L. <i>et al.</i>	All
	U21	US- 6,153,737	11-28-2000	Manoharan, M. <i>et al.</i>	All
	U22	US- 6,284,267	09-04-2001	Aneja, R.	All
	U23	US- 6,476,205	11-05-2002	Buhr, C. A. <i>et al.</i>	All

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First Named Inventor	Jörg Kaufmann
Art Unit	1635
Examiner Name	Kimberly Chong
Attorney Docket Number	ST-101XT

Sheet 2 of 9

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U24	US- 6,506,559	01-14-2003	Fire, A. <i>et al.</i>	All
	U25	US- 6,531,584	03-11-2003	Cook, P. D. <i>et al.</i>	All
	U26	US- 6,812,204	11-02-2004	McHale, A. P. <i>et al.</i>	All
	U27	US- 7,056,704	06-06-2006	Tuschl, T. <i>et al.</i>	All
	U28	US- 7,074,863	07-11-2006	Ekholm, P. <i>et al.</i>	All
	U29	US- 7,078,196	07-18-2006	Tuschl, T. <i>et al.</i>	All
	U30	US- 7,138,517	11-21-2006	Cook, P. D. <i>et al.</i>	All
	U31	US- 7,148,342	12-12-2006	Tolentino, M. J. <i>et al.</i>	All
	U32	US- 7,196,184	03-27-2007	Heidenreich, O. <i>et al.</i>	All
	U33	US- 2003/0027783	02-06-2003	Zemicka-Goetz, M. <i>et al.</i>	All
	U34	US- 2003/0108923	06-12-2003	Tuschl, T. <i>et al.</i>	All
	U35	US- 2004/0053875	03-18-2004	Kreutzer, R. <i>et al.</i>	All
	U36	US- 2004/0072779	04-15-2004	Kreutzer, R. <i>et al.</i>	All
	U37	US- 2004/0102408	05-27-2004	Kreutzer, R. <i>et al.</i>	All
	U38	US- 2004/0180351	09-16-2004	Giese, K. <i>et al.</i>	All
	U39	US- 2005/0100907	05-12-2005	Kreutzer, R. <i>et al.</i>	All
	U40	US- 2006/0094678	05-04-2006	Vornlocher, H. <i>et al.</i>	All
	U41	US- 2006/0142226	06-29-2006	Polisky, B. <i>et al.</i>	All
	U42	US- 2007/0027097	02-01-2007	Lewis, D. L.	All
	U43	US-2007/0093445	04-26-2007	Tuschl, T. <i>et al.</i>	All
	U44	US- 2007/0135372	06-14-2007	MacLachlan, I. <i>et al.</i>	All
	U45	US- 2007/0265220	11-15-2007	Rossi, J. J. <i>et al.</i>	All
	U46	US- 2004/0175703	09-09-2004	Kreutzer, R. <i>et al.</i>	All
	U47	US-7,348,314	03-25-2008	John, M. <i>et al.</i>	All

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Art Unit	1635
Examiner Name	Kimberly Chong
Attorney Docket Number	ST-101XT

Sheet	3	of	9
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ²	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	F1	EP- 02018572.4	08-14-2002	Atugen AG	All	
	F2	WO 03/064441 A2	08-07-2003	McGill University	All	
	F3	EP- 1 214 945 B1	06-08-2005	Ainylam Europe AG	All	
	F4	EP- 1 230 375 B1	07-06-2005	Cancer Research Technology Ltd	All	
	F5	EP- 1 407 044 B1	09-19-2007	Max-Planck-Gesellschaft	All	
	F6	EP- 1 798 285 A1	06-20-2007	Ainylam Europe AG	All	
	F7	EP- 1 550 719 A1	07-06-2005	Ainylam Europe AG	All	
	F8	EP- 1 527 176 B1	01-03-2007	Atugen AG	All	
	F9	GB- 2417727 B	01-16-2008	Ainylam Europe AG	All	
	F10	WO 2007/048244 A2	05-03-2007	Topigen Pharmaceuticals, Inc.	All	
	F11	WO 01/75164 A2	10-11-2001	Whitehead Institute for Biomedical Research <i>et al.</i>	All	
	F12	WO 02/055693 A2	07-18-2002	Ribopharma AG	All	
	F13	WO 2004/015107 A3	02-19-2004	Atugen AG	All	
	F14	WO 2004/019973 A1	03-11-2004	Atugen AG	All	
	F15	WO 2004/035615 A2	04-29-2004	Atugen AG	All	
	F16	WO 2005/000320 A2	01-06-2005	Atugen AG	All	
	F17	WO 2005/105152	11-10-2005	Atugen AG	All	

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			Filing Date	August 5, 2003	
			First Named Inventor	Jörg Kaufmann	
			Art Unit	1635	
			Examiner Name	Kimberly Chong	
Sheet	4	of	9	Attorney Docket Number	ST-101XT

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	F18	WO 2006/023544 A2	03-02-2006	Quark Biotech, Inc. <i>et al.</i>	All	
	F19	WO 2006/069782 A2	07-06-2006	Atugen AG	All	
	F20	WO 2007/084684 A2	07-26-2007	Quark Biotech, Inc. <i>et al.</i>		
	F21					
	F22					
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Sheet

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Application Number	10/633,630
Filing Date	August 5, 2003
First Named Inventor	Jörg Kaufmann
Group Art Unit	1635
Examiner Name	Kimberly Chong
Attorney Docket Number	ST-101XT

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	AMARZGUIQUI, M. <i>et al.</i> "Tolerance for mutations and chemical modifications in a siRNA", <i>Nucleic Acids Research</i> , 2003, pp. 589-595, Vol. 31, No. 2.	
	R2	BERTRAND, J. <i>et al.</i> "Comparison of antisense oligonucleotides and siRNAs in cell culture and in vivo", <i>Biochemical and Biophysical Research Communications</i> , 2002, pp. 1000-1004, Vol. 296.	
	R3	BILLY, E. <i>et al.</i> "Specific interference with gene expression induced by long, double-stranded RNA in mouse embryonal teratocarcinoma cell lines", <i>PNAS</i> , December 4, 2001, pp. 14428-14433, Vol. 98, No. 25.	
	R4	BOUTLA, A. <i>et al.</i> "Short 5'-phosphorylated double-stranded RNAs induce RNA interference in <i>Drosophila</i> ", <i>Current Biology</i> , November 13, 2001, pp. 1776-1780, Vol. 11.	
	R5	BRAASCH, D.A. <i>et al.</i> "RNA Interference in Mammalian Cells by Chemically-Modified RNA", <i>Biochemistry</i> , 2003, pp. 7967-7975, Vol. 42.	
	R6	BROWN, K. M. <i>et al.</i> "Target accessibility dictates the potency of human RISC", <i>Nature Structural & Molecular Biology</i> , May 2005, pp. 469-470, Vol. 12, No. 5.	
	R7	CHIU, Y. <i>et al.</i> "RNAi in Human Cells: Basic Structural and Functional Features of Small Interfering RNA", <i>Molecular Cell</i> , September 2002, pp. 549-561, Vol. 10.	
	R8	CLAYTON, J. "The Silent Treatment", <i>Nature</i> , September 30, 2004, pp. 599-605, Vol. 431.	
	R9	CLEMENS, M. J. "PKR- A Protein Kinase Regulated by Double-stranded RNA", <i>Int. J. Biochem. Cell Biol.</i> , 1997, pp. 945-949, Vol. 29, No. 7.	
	R10	CLEMENS, J.C. <i>et al.</i> "Use of double-stranded RNA interference in <i>Drosophila</i> cell lines to dissect signal transduction pathways", <i>PNAS</i> , June 6, 2000, pp. 6499-6503, Vol. 97, No. 12.	
	R11	CROOKE, R. M. <i>et al.</i> "Metabolism of Antisense Oligonucleotides in Rat Liver Homogenates", <i>The Journal of Pharmacology and Experimental Therapeutics</i> , 2000, pp. 140-149, Vol. 292.	
	R12	CZAUDERNA, F. <i>et al.</i> "Functional Studies of the PI(3)-kinase signaling pathway employing synthetic and expressed siRNA", <i>Nucleic Acids Research</i> , 2003, pp. 670-682, Vol. 31, No. 2.	

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	R13	DORSETT, Y. <i>et al.</i> "siRNAs: Applications in Functional Genomics and Potential as Therapeutics", <i>Drug Discovery</i> , April 2004, pp. 318-329, Vol. 3.			
	R14	GARY, D. J. <i>et al.</i> "Polymer-based siRNA delivery: Perspectives on the fundamental and phenomenological distinctions from polymer-based DNA delivery", <i>Journal of Controlled Release</i> , 2007, pp. 64-73, Vol. 121.			
	R15	HALL, I. M. <i>et al.</i> "Establishment and Maintenance of a Heterochromatin Domain", <i>Science</i> , September 27, 2002, pp. 2232-2237, Vol. 297.			
	R16	HAMMOND, S. M. <i>et al.</i> "Argonaute2, a Link Between Genetic and Biochemical Analyses of RNAi", <i>Science</i> , August 10, 2001, pp. 1146-1150, Vol. 293.			
	R17	HAMMOND, S.M. <i>et al.</i> "An RNA-directed nuclease mediates post-transcriptional gene silencing in <i>Drosophila</i> cells", <i>Nature</i> , March 16, 2000, pp. 293-296, Vol. 404.			
	R18	HANNON, G. J. "RNA interference", <i>Nature</i> , July 11, 2002, pp. 244-251, Vol. 418.			
	R19	HARBORTH, J. <i>et al.</i> "Sequence, Chemical, and Structural Variation of Small Interfering RNAs and Short Hairpin RNAs and the Effect on Mammalian Gene Silencing", <i>Antisense and Nucleic Acid Drug Development</i> , 2003, pp. 83-105, Vol. 13.			
	R20	HOERTER, J. A. <i>et al.</i> "Chemical Modification Resolves the Asymmetry of siRNA Strand Degradation in Human Blood Serum", <i>RNA</i> , 2007, pp. 1-7, Vol. 13.			
	R21	HU, X. <i>et al.</i> "Relative gene-silencing efficiencies of small interfering RNAs targeting sense and antisense transcripts from the same genetic locus", <i>Nucleic Acids Research</i> , 2004, pp. 4609-4617, Vol. 32, No. 15.			
	R22	INOUE, A. <i>et al.</i> "Molecular Design and Delivery of siRNA", <i>Journal of Drug Targeting</i> , 2006, pp. 448-455, Vol. 14, No. 7.			
	R23	JACKSON, A. L. <i>et al.</i> "Position-specific chemical modification of siRNAs reduces "off-target" transcript silencing", <i>RNA</i> , 2006, pp. 1197-1205, Vol. 12.			
	R24	KLIPPEL, A. <i>et al.</i> "The Interaction of Small Domains between the Subunits of Phosphatidylinositol 3-Kinase Determines Enzyme Activity", <i>Molecular and Cellular Biology</i> , April 1994, pp. 2675-2685, Vol. 14, No. 4.			

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	R25	KOLLER, E. <i>et al.</i> "Competition for RISC binding predicts <i>in vitro</i> potency of siRNA", <i>Nucleic Acids Research</i> , 2006, pp. 4467-4476, Vol. 34, No. 16.	
	R26	LAYZER, J. M. <i>et al.</i> "In vivo activity of nuclease-resistant siRNAs", <i>RNA</i> , 2004, pp. 766-771, Vol. 10.	
	R27	LEENDERS, F. <i>et al.</i> "PKN3 is required for malignant prostate cell growth downstream of activated PI 3-kinase", <i>The EMBO Journal</i> , 2004, pp. 3303-3313, Vol. 23, No. 16.	
	R28	LIMA, W. F. <i>et al.</i> "Structural Requirements at the Catalytic Site of the Heteroduplex Substrate for Human RNase H1 Catalysis", <i>The Journal of Biological Chemistry</i> , August 27, 2004, pp. 36317-36326, Vol. 279, No. 35.	
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	R33	MORRISSEY, D. V. <i>et al.</i> "Chemical Modification of Synthetic siRNA", <i>Pharmaceutical Discovery</i> , May 13, 2005.	
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Examiner Signature	Date Considered
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/633,630
Filing Date	August 5, 2003
First Named Inventor	Jörg Kaufmann
Group Art Unit	1635
Examiner Name	Kimberly Chong
Attorney Docket Number	ST-101XT

Sheet

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of

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R37	PARRISH, S. <i>et al.</i> "Functional Anatomy of a dsRNA Trigger: Differential Requirement for the Two Trigger Strands in RNA Interference", <i>Molecular Cell</i> , November 2000, pp. 1077-1087, Vol. 6.	
	R38	PATEL, D. J. <i>et al.</i> "Structural Biology of RNA Silencing and Its Functional Implications", <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2006, pp. 81-93, Vol. LXXI.	
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	R41	POTERA, C. "Antisense- down, but not out", <i>Nature Biotechnology</i> , May 2007, pp. 497-499, Vol. 25, No. 5.	
	R42	RANA, T. M. "Illuminating the silence: understanding the structure and function of small RNAs", <i>Molecular Cell Biology</i> , January 2007, pp. 23-36, Vol. 8.	
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	R44	ROSSI, J. J. "A Cholesterol connection in RNAi", <i>Nature</i> , November 11, 2004, pp. 155-156, Vol. 432.	
	R45	SANTEL, A. "Get the balance right: Mitofusins roles in health and disease", <i>Biochimica et Biophysica Acta</i> , 2006, pp. 490-499, Vol. 1763.	
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Sheet 9 of 9

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Application Number	10/633,630
Filing Date	August 5, 2003
First Named Inventor	Jörg Kaufmann
Group Art Unit	1635
Examiner Name	Kimberly Chong
Attorney Docket Number	ST-101XT

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	R49	SCHWARZER, R. <i>et al.</i> "TRB3 is a PI 3-kinase dependent indicator for nutrient starvation", <i>Cellular Signalling</i> , 2006, pp. 899-909, Vol. 18.	
	R50	SNOVE, O. <i>et al.</i> "Chemical Modifications Rescue Off-Target Effects of RNAi", <i>ACS Chemical Biology</i> , 2006, pp. 274-276, Vol. 1, No. 5.	
	R51	TURNER, J. J. <i>et al.</i> "MALDI-TOF mass spectral analysis of siRNA degradation in serum confirms an RNase A-like activity", <i>Molecular BioSystems</i> , 2007, pp. 43-50, Vol. 3.	
	R52	TUSCHL, T. "Expanding small RNA interference", <i>Nature Biotechnology</i> , May 2002, pp. 446-448, Vol. 20.	
	R53	TUSCHL, T. <i>et al.</i> "Small Interfering RNAs: A Revolutionary Tool for the Analysis of Gene Function and Gene Therapy", <i>Molecular Interventions</i> , June 2002, pp. 158-167, Vol. 2, Issue 3.	
	R54	VOLPE, T. A. <i>et al.</i> "Regulation of Heterochromatic Silencing and Histone H3 Lysine-9 Methylation by RNAi", <i>Science</i> , September 13, 2002, pp. 1833-1837, Vol. 297.	
	R55	WILSON, C. <i>et al.</i> "Building oligonucleotide therapeutics using non-natural chemistries", <i>Current Opinion in Chemical Biology</i> , 2006, pp. 607-614, Vol. 10.	
	R56	Delivery Note, 2 pages, December 20, 2001.	
	R57		
	R58		
	R59		
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